

A R C A D Y 6

ASSESSMENT OF ROUNDABOUT CAPACITY AND DELAY

Analysis Program: Release 3.0 (JUNE 2005)

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For sales and distribution information,
program advice and maintenance, contact:

TRL Limited Tel: +44 (0) 1344 770018
Crowthorne House Fax: +44 (0) 1344 770864
Nine Mile Ride Email: softwarebureau@trl.co.uk
Wokingham, Berks. web: www.trlsoftware.co.uk
RG40 3GA,UK

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Run with file:-
"C:\Esteban\PROYECTOS\2000s\2048_ESTUDIO GLORIETA ESTEPONA\2048_arcady\arcady\con_seg_18a20.vai"
(drive-on-the-right) at 19:23:24 on wednesday, 14 November 2007

FILE PROPERTIES

RUN TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20
LOCATION: ESTEPONA
DATE: 13/11/2007
CLIENT:
ENUMERATOR: econde [ORD-64]
JOB NUMBER: 2048
STATUS:
DESCRIPTION: Con carril segregado - Estudio de 18:00 h a 20:00 h.

INPUT DATA

ARM A - J.MARTIN
ARM B - GASOLINERA
ARM C - MAR
ARM D - J.CARLOS
ARM E - S.FERNANDO
ARM F - PUERTAS

GEOMETRIC DATA

ARM B IS JUNCTION EXIT ONLY

I	ARM	I	V (M)	I	E (M)	I	L (M)	I	R (M)	I	D (M)	I	PHI (DEG)	I	SLOPE	I	INTERCEPT (PCU/MIN)	I
I	ARM A	I	6.50	I	6.50	I	0.00	I	4.20	I	80.00	I	68.0	I	0.350	I	22.458	I
I	ARM C	I	6.50	I	7.37	I	5.50	I	12.00	I	80.00	I	48.0	I	0.486	I	32.344	I
I	ARM D	I	6.00	I	8.75	I	9.40	I	25.00	I	80.00	I	39.0	I	0.541	I	36.669	I
I	ARM E	I	4.25	I	9.50	I	23.80	I	25.00	I	80.00	I	40.0	I	0.535	I	36.082	I
I	ARM F	I	8.00	I	9.00	I	0.80	I	8.00	I	80.00	I	60.0	I	0.483	I	34.062	I

V = approach half-width L = effective flare length D = inscribed circle diameter
E = entry width R = entry radius PHI = entry angle

TRAFFIC DEMAND DATA

(Only sets included in the current run are shown)

I	ARM	I	FLOW	SCALE(%)	I
I	A	I	100	I	I
I	B	I	100	I	I
I	C	I	100	I	I
I	D	I	100	I	I
I	E	I	100	I	I
I	F	I	100	I	I

TIME PERIOD BEGINS 18.00 AND ENDS 20.00

LENGTH OF TIME PERIOD - 120 MINUTES.
 LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE INPUT DIRECTLY.
 DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

I I I I I	I	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)										I I I I I
		I		I		I		I		I		
		FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F				
18.00 - 18.15	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.173 2.8 (10.0)	0.422 6.9 (10.0)	0.368 6.1 (10.0)	0.036 0.6 (10.0)					
	ARM C	0.270 2.2 (10.0)	0.012 0.1 (10.0)	0.000 0.0 (10.0)	0.025 0.2 (10.0)	0.307 2.5 (10.0)	0.387 3.2 (10.0)					
	ARM D	0.312 2.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.163 1.1 (10.0)	0.461 3.3 (10.0)					
	ARM E	0.308 2.8 (10.0)	0.059 0.6 (10.0)	0.114 1.0 (10.0)	0.092 0.9 (10.0)	0.000 0.0 (10.0)	0.427 4.0 (10.0)					
	ARM F	0.027 0.4 (10.0)	0.024 0.4 (10.0)	0.192 3.2 (10.0)	0.396 6.6 (10.0)	0.361 6.0 (10.0)	0.000 0.0 (10.0)					

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.15 - 18.30	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.173 2.8 (10.0)	0.422 6.9 (10.0)	0.368 6.1 (10.0)	0.036 0.6 (10.0)			
	ARM C	0.270 2.2 (10.0)	0.012 0.1 (10.0)	0.000 0.0 (10.0)	0.025 0.2 (10.0)	0.307 2.5 (10.0)	0.387 3.2 (10.0)			
	ARM D	0.312 2.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.163 1.1 (10.0)	0.461 3.3 (10.0)			
	ARM E	0.308 2.8 (10.0)	0.059 0.6 (10.0)	0.114 1.0 (10.0)	0.092 0.9 (10.0)	0.000 0.0 (10.0)	0.427 4.0 (10.0)			
	ARM F	0.027 0.4 (10.0)	0.024 0.4 (10.0)	0.192 3.2 (10.0)	0.396 6.6 (10.0)	0.361 6.0 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.30 - 18.45	ARM A	0.000 (10.0)	0.000 (10.0)	0.173 (10.0)	0.422 (10.0)	0.368 (10.0)	0.036 (10.0)			
	ARM C	0.270 (10.0)	0.012 (10.0)	0.000 (10.0)	0.025 (10.0)	0.307 (10.0)	0.387 (10.0)			
	ARM D	0.312 (10.0)	0.021 (10.0)	0.021 (10.0)	0.021 (10.0)	0.163 (10.0)	0.461 (10.0)			
	ARM E	0.308 (10.0)	0.059 (10.0)	0.114 (10.0)	0.092 (10.0)	0.000 (10.0)	0.427 (10.0)			
	ARM F	0.027 (10.0)	0.024 (10.0)	0.192 (10.0)	0.396 (10.0)	0.361 (10.0)	0.000 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

		TURNING PROPORTIONS									
		TURNING COUNTS									
		(PERCENTAGE OF H.V.S)									
TIME		FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
18.45 - 19.00		ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.173 2.8 (10.0)	0.422 6.9 (10.0)	0.368 6.1 (10.0)	0.036 0.6 (10.0)			
		ARM C	0.270 2.2 (10.0)	0.012 0.1 (10.0)	0.000 0.0 (10.0)	0.025 0.2 (10.0)	0.307 2.5 (10.0)	0.387 3.2 (10.0)			
		ARM D	0.312 2.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.021 0.2 (10.0)	0.163 1.1 (10.0)	0.461 3.3 (10.0)			
		ARM E	0.308 2.8 (10.0)	0.059 0.6 (10.0)	0.114 1.0 (10.0)	0.092 0.9 (10.0)	0.000 0.0 (10.0)	0.427 4.0 (10.0)			
		ARM F	0.027 0.4 (10.0)	0.024 0.4 (10.0)	0.192 3.2 (10.0)	0.396 6.6 (10.0)	0.361 6.0 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.00 - 19.15	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.15 - 19.30	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.30 - 19.45	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

DEMAND SET TITLE: GLORIETA ESTEPONA - CON CARRIL SEGREGADO - 18 a 20

TIME	TURNING PROPORTIONS TURNING COUNTS (PERCENTAGE OF H.V.S)									
	FROM/TO	ARM A	ARM B	ARM C	ARM D	ARM E	ARM F			
19.45 - 20.00	ARM A	0.000 0.0 (10.0)	0.000 0.0 (10.0)	0.157 2.8 (10.0)	0.556 9.9 (10.0)	0.287 5.1 (10.0)	0.000 0.0 (10.0)			
	ARM C	0.196 1.1 (10.0)	0.047 0.3 (10.0)	0.009 0.1 (10.0)	0.057 0.3 (10.0)	0.289 1.7 (10.0)	0.403 2.3 (10.0)			
	ARM D	0.246 1.5 (10.0)	0.049 0.3 (10.0)	0.082 0.5 (10.0)	0.033 0.2 (10.0)	0.180 1.1 (10.0)	0.410 2.5 (10.0)			
	ARM E	0.408 3.1 (10.0)	0.092 0.7 (10.0)	0.145 1.1 (10.0)	0.039 0.3 (10.0)	0.000 0.0 (10.0)	0.316 2.4 (10.0)			
	ARM F	0.017 0.3 (10.0)	0.017 0.3 (10.0)	0.203 3.5 (10.0)	0.506 8.7 (10.0)	0.256 4.4 (10.0)	0.000 0.0 (10.0)			

QUEUE AND DELAY INFORMATION FOR EACH 15 MIN TIME SEGMENT

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
18.00-18.15									
ARM A	16.45	13.74	1.197		0.0	45.1	361.0		1.85
ARM C	8.15	17.43	0.467		0.0	0.9	12.4		0.11
ARM D	7.05	22.90	0.308		0.0	0.4	6.5		0.06
ARM E	9.25	26.50	0.349		0.0	0.5	7.8		0.06
ARM F	16.63	26.04	0.639		0.0	1.7	24.6		0.10
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE:		ENTRY WIDTH (.1M)		FLARE LENGTH (M)		INSCRIBED CIRC DIAM (M)		ENTRY ANGLE (10 DEGS)	
ARM A		0.282		0.000		0.036		-0.765	
ARM C		0.153		0.123		0.065		-0.734	
ARM D		0.107		0.293		0.057		-0.891	
ARM E		0.150		0.233		0.034		-1.036	
ARM F		0.015		0.748		0.027		-1.206	

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
18.15-18.30									
ARM A	16.45	13.70	1.201		45.1	86.6	987.5		4.98
ARM C	8.15	17.30	0.471		0.9	0.9	13.2		0.11
ARM D	7.05	22.80	0.309		0.4	0.4	6.7		0.06
ARM E	9.25	26.46	0.350		0.5	0.5	8.0		0.06
ARM F	16.63	26.01	0.639		1.7	1.8	26.2		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.281	0.000		0.037		-0.763		
ARM C		0.153	0.122		0.066		-0.728		
ARM D		0.107	0.293		0.057		-0.887		
ARM E		0.150	0.233		0.035		-1.034		
ARM F		0.015	0.748		0.027		-1.205		

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
18.30-18.45									
ARM A	16.45	13.70	1.201		86.6	127.9	1608.4		7.97
ARM C	8.15	17.29	0.471		0.9	0.9	13.3		0.11
ARM D	7.05	22.80	0.309		0.4	0.4	6.7		0.06
ARM E	9.25	26.46	0.350		0.5	0.5	8.0		0.06
ARM F	16.63	26.01	0.639		1.8	1.8	26.4		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.281	0.000		0.037		-0.763		
ARM C		0.153	0.122		0.066		-0.727		
ARM D		0.107	0.293		0.057		-0.887		
ARM E		0.150	0.233		0.035		-1.034		
ARM F		0.015	0.748		0.027		-1.205		

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
18.45-19.00									
ARM A	16.45	13.70	1.201		127.9	169.2	2228.1		11.10
ARM C	8.15	17.29	0.471		0.9	0.9	13.3		0.11
ARM D	7.05	22.80	0.309		0.4	0.4	6.7		0.06
ARM E	9.25	26.46	0.350		0.5	0.5	8.0		0.06
ARM F	16.63	26.01	0.639		1.8	1.8	26.4		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.281	0.000		0.037		-0.763		
ARM C		0.153	0.122		0.066		-0.727		
ARM D		0.107	0.293		0.057		-0.887		
ARM E		0.150	0.233		0.035		-1.034		
ARM F		0.015	0.748		0.027		-1.205		

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
19.00-19.15									
ARM A	17.80	13.30	1.338		169.2	236.7	3043.8		15.37
ARM C	5.78	17.38	0.333		0.9	0.5	7.8		0.09
ARM D	6.10	25.60	0.238		0.4	0.3	4.8		0.05
ARM E	7.60	27.99	0.272		0.5	0.4	5.7		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.0		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
MARGINAL CHANGE: ENTRY WIDTH (M) FLARE LENGTH (M) INSCRIBED CIRC DIAM (M) ENTRY ANGLE (10 DEGS)									
ARM A		0.277	0.000		0.039		-0.740		
ARM C		0.153	0.123		0.066		-0.731		
ARM D		0.114	0.311		0.042		-0.997		
ARM E		0.154	0.240		0.026		-1.094		
ARM F		0.015	0.757		0.024		-1.229		

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
19.15-19.30									
ARM A	17.80	13.30	1.338		236.7	304.1	4056.0		20.43
ARM C	5.78	17.36	0.333		0.5	0.5	7.5		0.09
ARM D	6.10	25.79	0.237		0.3	0.3	4.7		0.05
ARM E	7.60	28.06	0.271		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.3		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.277	0.000	0.039	-0.740				
	ARM C	0.153	0.123	0.066	-0.730				
	ARM D	0.114	0.312	0.041	-1.004				
	ARM E	0.155	0.241	0.026	-1.097				
	ARM F	0.015	0.757	0.024	-1.230				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
19.30-19.45									
ARM A	17.80	13.30	1.338		304.1	371.6	5068.2		25.50
ARM C	5.78	17.35	0.333		0.5	0.5	7.5		0.09
ARM D	6.10	25.86	0.236		0.3	0.3	4.6		0.05
ARM E	7.60	28.08	0.271		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.4		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.277	0.000	0.039	-0.740				
	ARM C	0.153	0.122	0.066	-0.730				
	ARM D	0.114	0.313	0.041	-1.007				
	ARM E	0.155	0.241	0.026	-1.097				
	ARM F	0.015	0.757	0.024	-1.230				

TIME	DEMAND (VEH/MIN)	CAPACITY (VEH/MIN)	DEMAND/ CAPACITY (RFC)	PEDESTRIAN FLOW (PEDS/MIN)	START QUEUE (VEHS)	END QUEUE (VEHS)	DELAY (VEH.MIN/ TIME SEGMENT)	GEOMETRIC DELAY (VEH.MIN/ TIME SEGMENT)	AVERAGE DELAY PER ARRIVING VEHICLE (MIN)
19.45-20.00									
ARM A	17.80	13.30	1.338		371.6	439.1	6080.4		30.57
ARM C	5.78	17.34	0.333		0.5	0.5	7.5		0.09
ARM D	6.10	25.90	0.236		0.3	0.3	4.6		0.05
ARM E	7.60	28.09	0.271		0.4	0.4	5.6		0.05
ARM F	17.20	26.54	0.648		1.8	1.8	27.5		0.11
EFFECT ON CAPACITY (PCU/MIN) OF MARGINAL CHANGES IN:									
	MARGINAL CHANGE:	ENTRY WIDTH (.1M)	FLARE LENGTH (M)	INSCRIBED CIRC DIAM (M)	ENTRY ANGLE (10 DEGS)				
	ARM A	0.277	0.000	0.039	-0.740				
	ARM C	0.153	0.122	0.066	-0.730				
	ARM D	0.114	0.313	0.041	-1.008				
	ARM E	0.155	0.241	0.026	-1.098				
	ARM F	0.015	0.757	0.024	-1.230				

QUEUE AT ARM A

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	45.1	*****
18.30	86.6	*****
18.45	127.9	*****
19.00	169.2	*****
19.15	236.7	*****
19.30	304.1	*****
19.45	371.6	*****
20.00	439.1	*****

QUEUE AT ARM C

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	0.9	*
18.30	0.9	*
18.45	0.9	*
19.00	0.9	*
19.15	0.5	*
19.30	0.5	*
19.45	0.5	*
20.00	0.5	*

QUEUE AT ARM D

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	0.4	
18.30	0.4	
18.45	0.4	
19.00	0.4	
19.15	0.3	
19.30	0.3	
19.45	0.3	
20.00	0.3	

QUEUE AT ARM E

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	0.5	*
18.30	0.5	*
18.45	0.5	*
19.00	0.5	*
19.15	0.4	
19.30	0.4	
19.45	0.4	
20.00	0.4	

QUEUE AT ARM F

TIME SEGMENT ENDING	NO. OF VEHICLES IN QUEUE	
18.15	1.7	**
18.30	1.8	**
18.45	1.8	**
19.00	1.8	**
19.15	1.8	**
19.30	1.8	**
19.45	1.8	**
20.00	1.8	**

QUEUEING DELAY INFORMATION OVER WHOLE PERIOD

I	ARM	I	TOTAL	DEMAND	I	* QUEUEING *	I	* INCLUSIVE QUEUEING *	I
I		I			I	* DELAY *	I	* DELAY *	I
I		I	(VEH)	(VEH/H)	I	(MIN)	(MIN/VEH)	I	(MIN)
I		I			I			I	(MIN/VEH)
I	A	I	2055.0	I 1027.5	I 23433.4	I 11.40	I 30681.1	I 14.93	I
I	C	I	835.8	I 417.9	I 82.5	I 0.10	I 82.5	I 0.10	I
I	D	I	789.0	I 394.5	I 45.3	I 0.06	I 45.3	I 0.06	I
I	E	I	1011.0	I 505.5	I 54.4	I 0.05	I 54.4	I 0.05	I
I	F	I	2029.8	I 1014.9	I 212.9	I 0.10	I 212.9	I 0.10	I
I	ALL	I	6720.6	I 3360.3	I 23828.4	I 3.55	I 31076.2	I 4.62	I

* DELAY IS THAT OCCURRING ONLY WITHIN THE TIME PERIOD.
* INCLUSIVE DELAY INCLUDES DELAY SUFFERED BY VEHICLES WHICH ARE STILL QUEUEING AFTER THE END OF THE TIME PERIOD.
* THESE WILL ONLY BE SIGNIFICANTLY DIFFERENT IF THERE IS A LARGE QUEUE REMAINING AT THE END OF THE TIME PERIOD.

END OF JOB

===== end of file =====

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